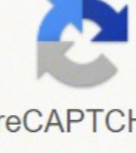


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Name: _____ Date: _____

Mixtures

Select the correct answer for each question.

- Two or more substances mixed together but not chemically combined.
 - Most substances will explode when mixed.
 - Substances in a mixture maintain their own properties.
 - Only liquids can be combined to form mixtures.
- A smooth mixture of nuts, walnuts and peanuts cannot be separated.
 - True
 - False
- Which of the following are mixtures?
 - Salt water
 - Sand and iron filings
 - Air
 - All of the above
- Which of the following is not a mixture?
 - Flour and sugar
 - Iron filings and charcoal
 - Cook flour
 - Atmosphere
- Which of the following methods can be used for separating large from small particles?
 - electrolysis
 - filtering
 - sifting
 - evaporation
- Which of the following is a mixture?
 - Salt
 - Salt water
 - Hydroxide
 - All of the above
- How can you separate a mixture of iron filings and sand?
 - sifting
 - use a magnet to attract iron filings
 - burning
 - adding water and filtering

Name: _____ Date: _____

Mixtures

Many of the objects in the pictures are mixtures. Circle the correct answer.

 <p>Water in glass</p> <p><input type="checkbox"/> Mixture</p> <p><input type="checkbox"/> Not a mixture</p>	 <p>Boiling</p> <p><input type="checkbox"/> Mixture</p> <p><input type="checkbox"/> Not a mixture</p>
 <p>Ice water</p> <p><input type="checkbox"/> Mixture</p> <p><input type="checkbox"/> Not a mixture</p>	 <p>Orange juice</p> <p><input type="checkbox"/> Mixture</p> <p><input type="checkbox"/> Not a mixture</p>
 <p>Using magnet</p> <p><input type="checkbox"/> Mixture</p> <p><input type="checkbox"/> Not a mixture</p>	 <p>Mustard</p> <p><input type="checkbox"/> Mixture</p> <p><input type="checkbox"/> Not a mixture</p>
 <p>Hot soup</p> <p><input type="checkbox"/> Mixture</p> <p><input type="checkbox"/> Not a mixture</p>	 <p>Hot soup</p> <p><input type="checkbox"/> Mixture</p> <p><input type="checkbox"/> Not a mixture</p>
 <p>Light source</p> <p><input type="checkbox"/> Mixture</p> <p><input type="checkbox"/> Not a mixture</p>	 <p>Mixed nuts</p> <p><input type="checkbox"/> Mixture</p> <p><input type="checkbox"/> Not a mixture</p>

Mixtures and Solutions Sort

Directions Draw a T-Chart in your science notebook. Label one side **Mixtures** and the other side **Solutions**. Cut the pictures out and glue them to the correct category.





Mixtures and Solutions

Definition A physical combination of 2 or more substances, each retaining its own properties.

Tools: sieve, magnet, hand, filter, float/sink, evaporation (SMHFFE)

There are two types of mixtures: Heterogeneous and Homogeneous

- In a **heterogeneous** mixture, the distribution, or arrangement of the components varies throughout the mixture.
- In a **homogeneous** mixture, the components are distributed evenly throughout the mixture.

When one substance dissolves into another, forming a homogeneous mixture like Kool-Aid, then a **SPECIAL** mixture is formed called a **SOLUTION**.

Solutions could also be gases dissolved in liquids (such as carbonated water), Coca-Cola!

Create each mixture from the table below. Use 1 spoonful of each substance to create your mixture, stir together and record your findings.

Mixture	Best tool to separate?	Is it a solution?	Is it a mixture?	Did any part dissolve?
Iron filings and sand				
Pebbles and sand				
Sand and water				
Paper Clips and beads				
Colored beads				
Salt and Water				
Sugar and Water				

with Science

All mixed up!

Background knowledge
When solids are added to some liquids, the solid dissolves into very tiny particles and seems to disappear. A mixture in which one material dissolves in another is called a solution. When you add sugar to a cup of tea, the sugar dissolves in the tea to form a solution. Some solids will not dissolve in liquids. For example, flour will not dissolve in water. Materials that dissolve in liquids are called **soluble**. Materials that do not dissolve in liquids are called **insoluble**. Water is a liquid that can dissolve many types of materials.

Science activity
Read the sentences below and decide which ones are true and which ones are false. Circle the right answers.

Sand dissolves in boiling water. True/False
Sugar dissolves in lemon juice. True/False
Sed dissolves in water. True/False
Salt dissolves in tomato soup. True/False
Sugar dissolves in sand. True/False
Oil is soluble in vinegar. True/False

Science investigation
Design and conduct an experiment to see if a sugar cube dissolves faster in hot water or cold water.

This printable includes a... WORKSHEETS How Do Solutes Affect Freezing Points? Habitats Word Search: Ocean Animals Habitats Word Search: Ocean Animals In which habitat could you find a blue whale, a squid, and a shark? WORKSHEETS Solubility Curves Activity Use this enrichment activity to practice interpreting graphs and applying science concepts. This printable provides a chart of pH... WORKSHEETS Investigate Activity: Investigating Solutions Students investigate how food coloring reacts with oil and water. This physical... WORKSHEETS What Is the pH Scale? Review pH indicators with the fill-in-the-blank questions in this physical science printable. Easy and fun hands-on chemistry experiment Students learn about molecules and solutions with this hands-on science... WORKSHEETS Acids and Bases Key Term Review Match key science terms with their descriptions in this vocabulary worksheet about acids and bases. Challenge students to identify the strength of an acid or a base by its pH level, and review the pH scale with... WORKSHEETS What Is a Mixture? ACTIVITIES Science Skill: Experimenting Students practice experimenting by circling their prediction of what will happen when sugar is poured into water, and... WORKSHEETS What is a Solution? Students will evaluate true/false statements and... WORKSHEETS What Are the Parts of a Solution? You can find more information and change your preferences here Page 3 This website uses cookies We and our advertising partners use cookies and other tracking technologies to improve your browsing experience on our website, to show you personalized content and targeted ads, to analyze our website traffic, and to understand where our visitors are coming from. Review how solutes affect freezing points with the fill-in-the-blank and skill-challenge questions in this physical... Use this physical science printable to review what a mixture is. 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Landforms Learn landform vocabulary words, such as plain, plateau, mesa, volcano, cliff, isthmus, mountain, and hill. Life Cycle: Butterflies Life cycle wheel, scavenger hunt, worksheets, and a mini-book about butterflies. Life Cycle: Frogs Scavenger hunt, worksheets, life cycle wheel, and a mini-book about frogs. Life Cycle: Mealworms Find out how a mealworm changes into an adult darkling beetle. Light Energy Find out how light energy works.

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